

Figure 1 - Computer System

(With Connections to Local Area Network, Local Storage, and Internet)

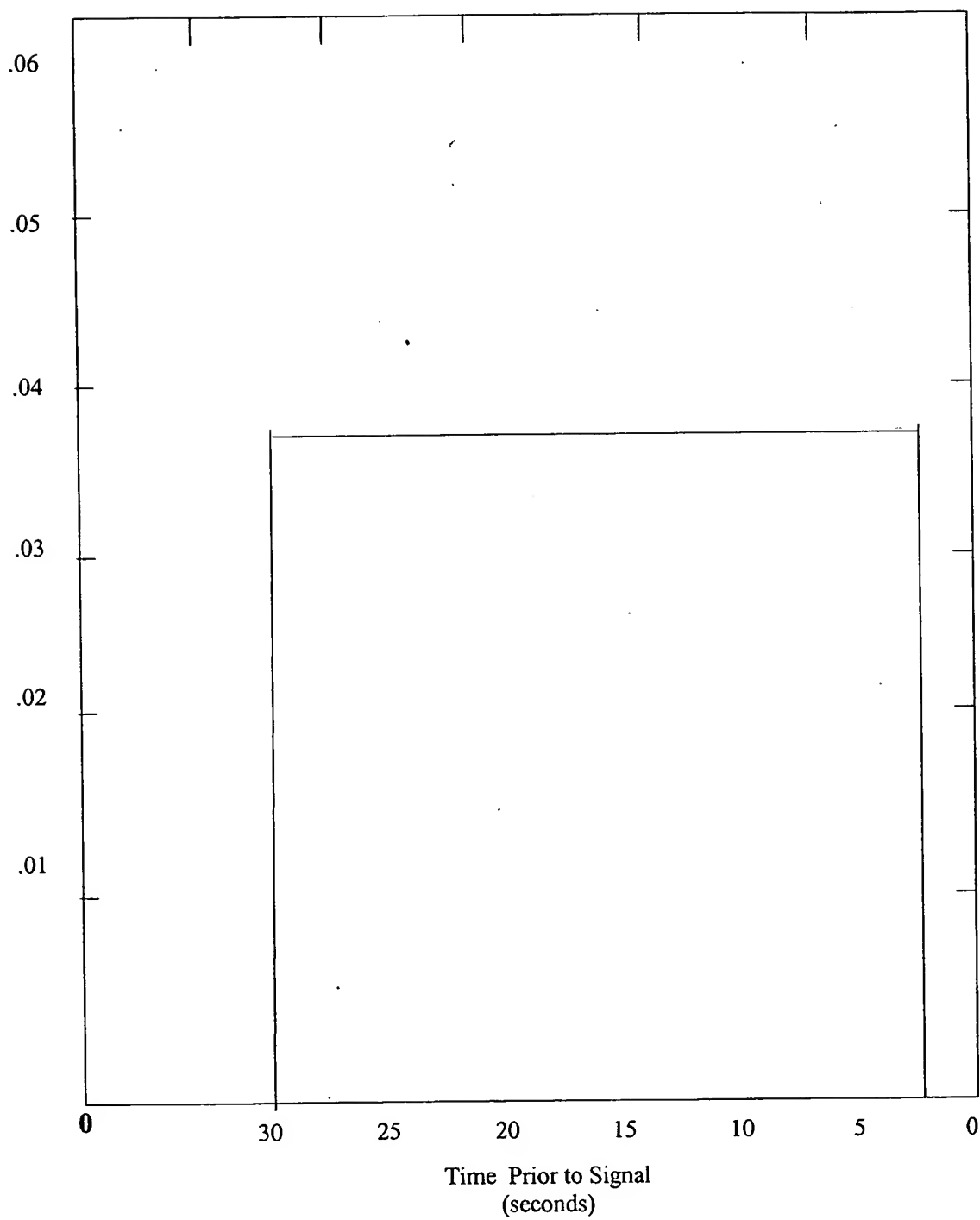


Figure 2 - Interest in Content As A Function of Time in One Embodiment

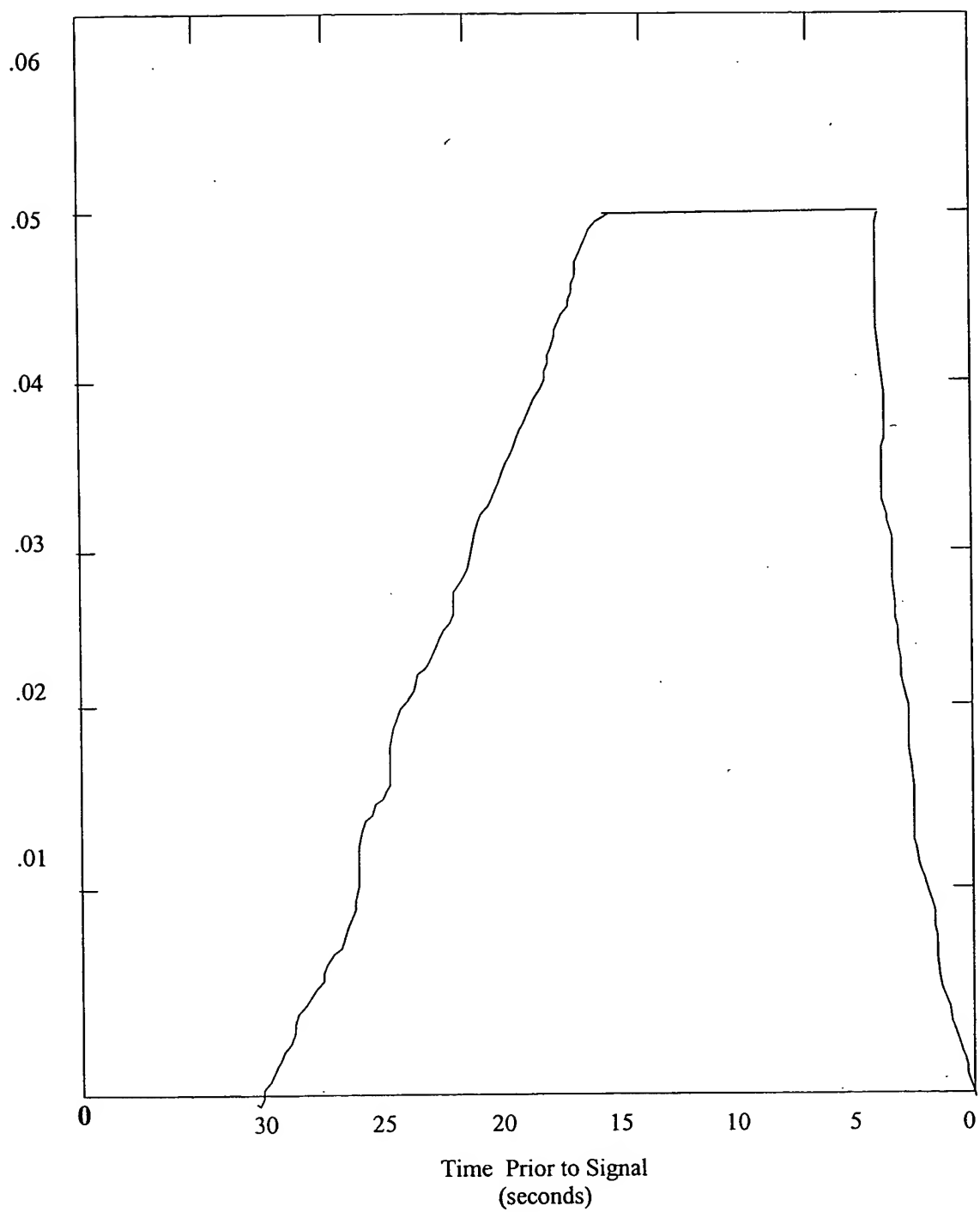


Figure 3 - Interest in Content As A Function of Time in One Embodiment

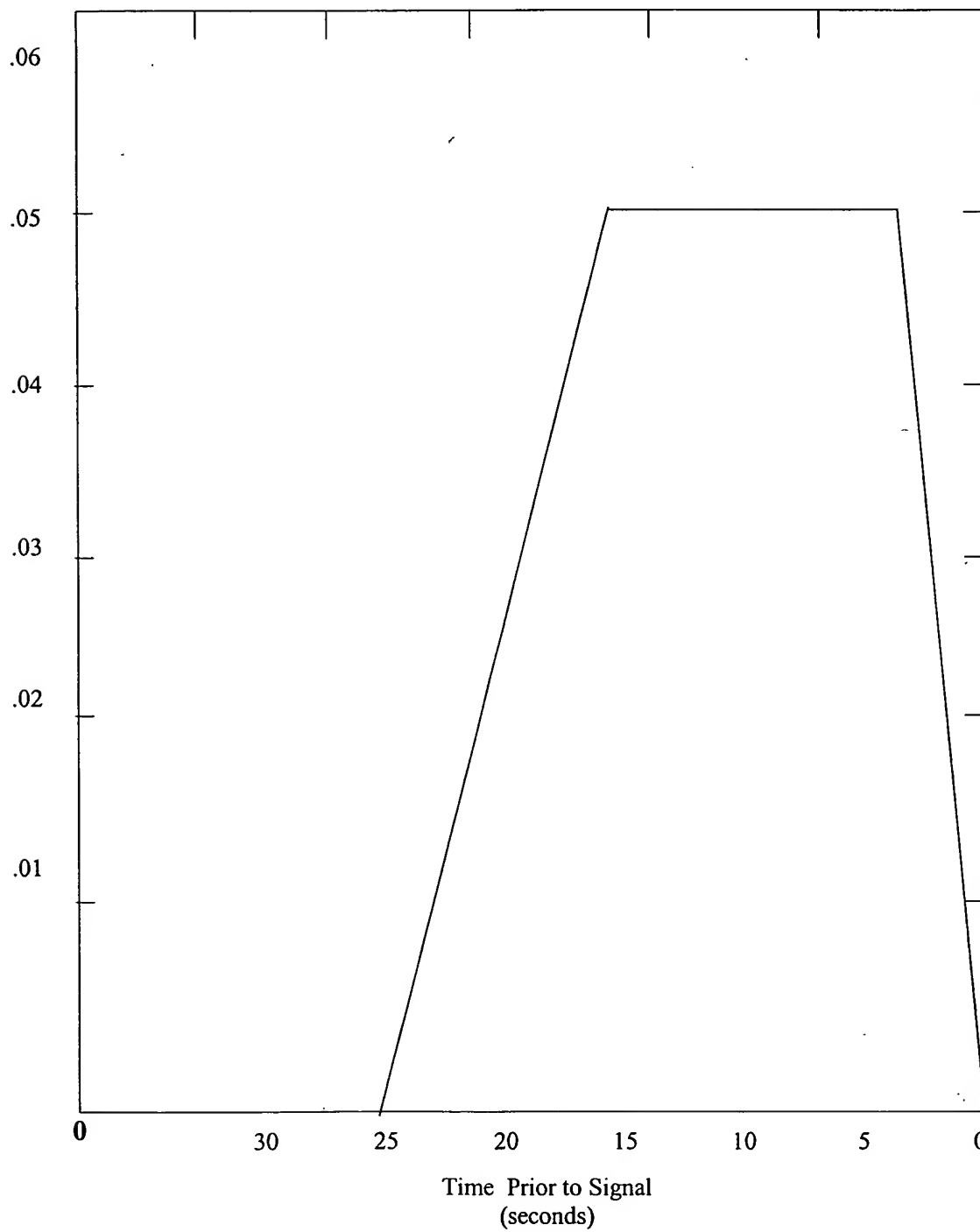


Figure 4 - Interest in Content As A Function of Time in One Embodiment

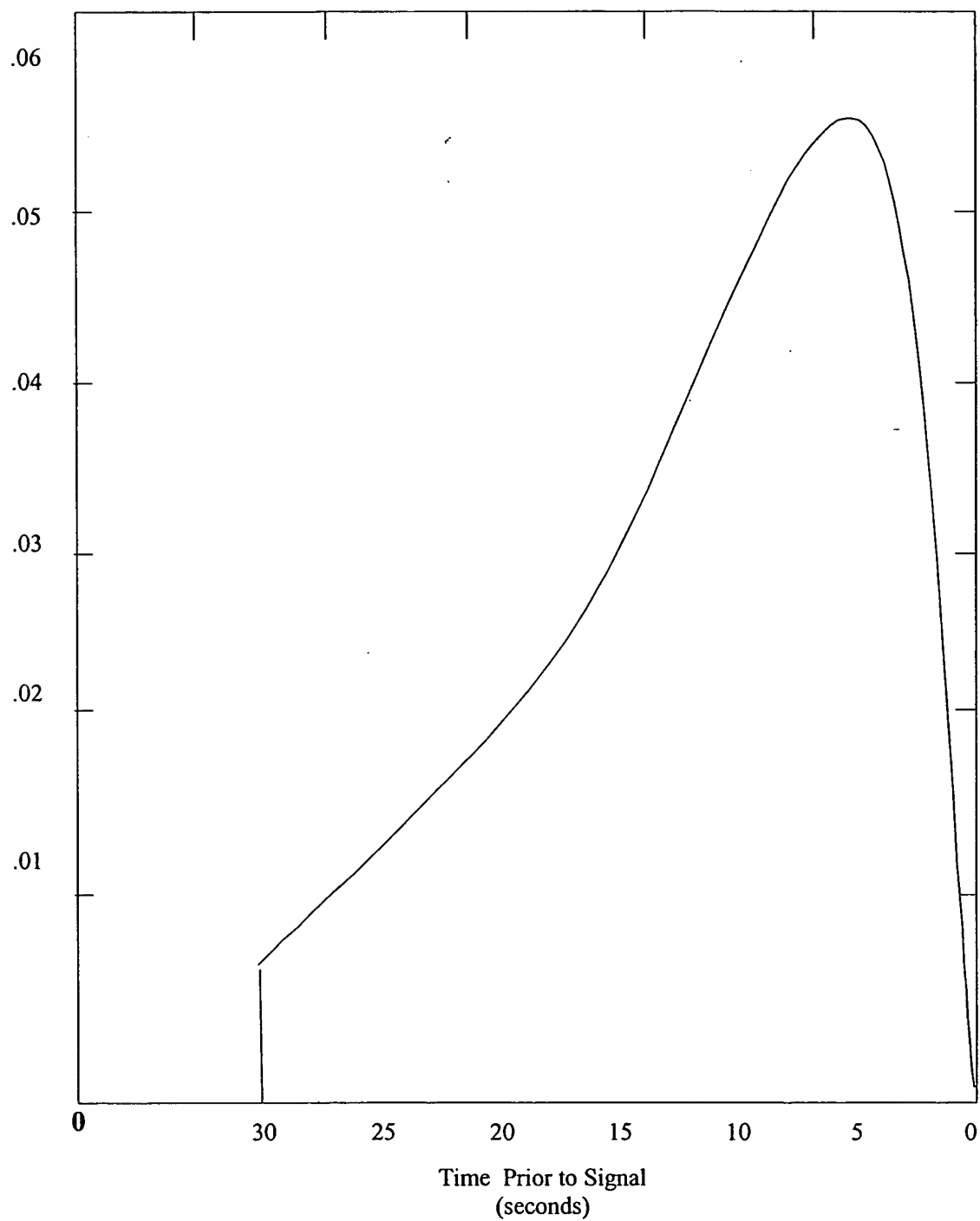


Figure 5 - Interest in Content As A Function of Time
Using Discrete Two Stage Exponential Function

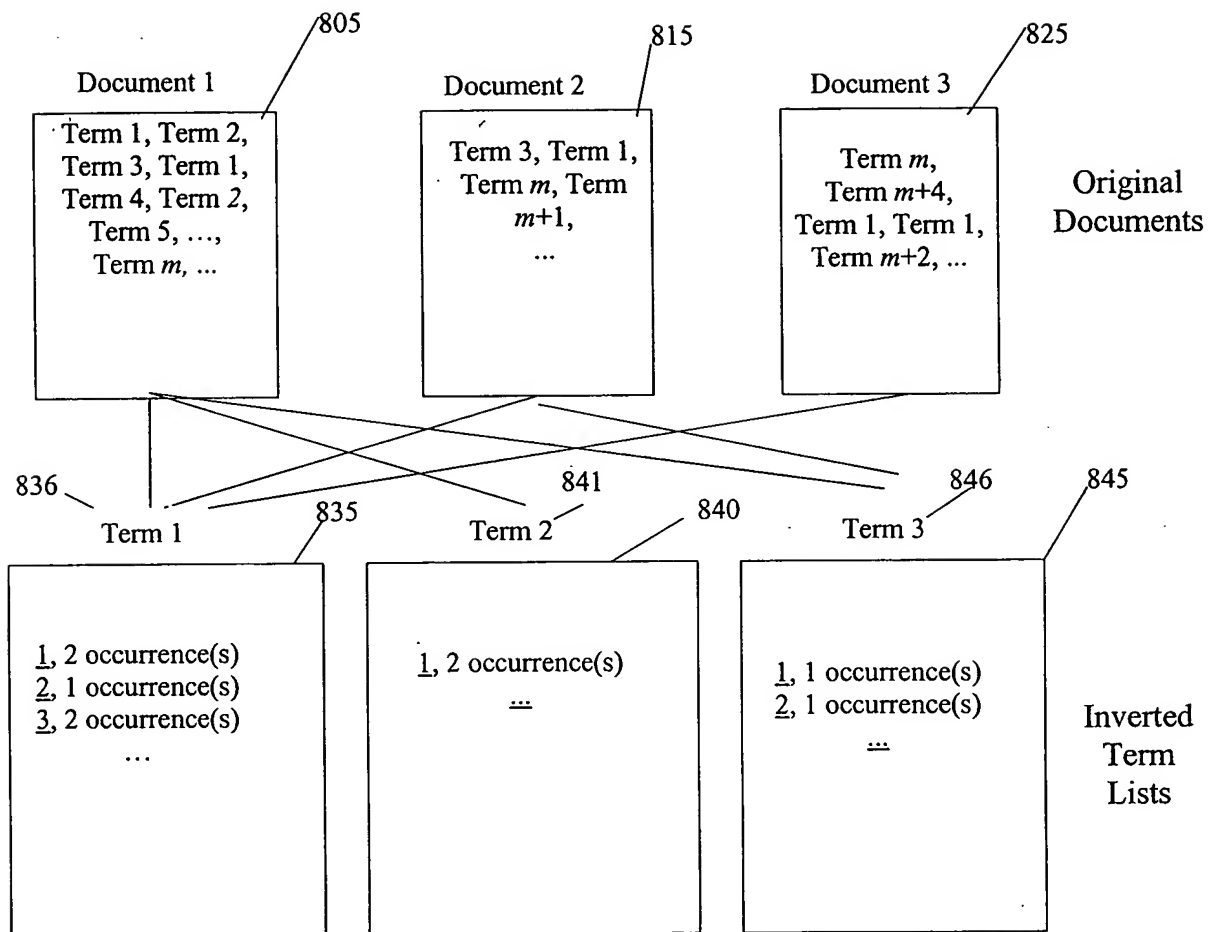


Figure 6 - Relationship Between Documents and Inverted Term Lists (Prior Art)

100

Document #	Document URL
1	URL 1
2	URL 2
3	URL 3
...	

Lookup Table

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Term #	Term	ITL Address	Number of Documents Containing Term	TF _{MAX}
1	"Term 1"	Loc. 1	N ₁	TF _{M1}
2	"Term 2"	Loc. 2	N ₂	TF _{M2}
3	"Term 3"	Loc. 3	N ₃	TF _{M3}

Lookup Table

Figure 7 - Lookup Tables Which May Be Used With Inverted Term Lists (Prior Art)

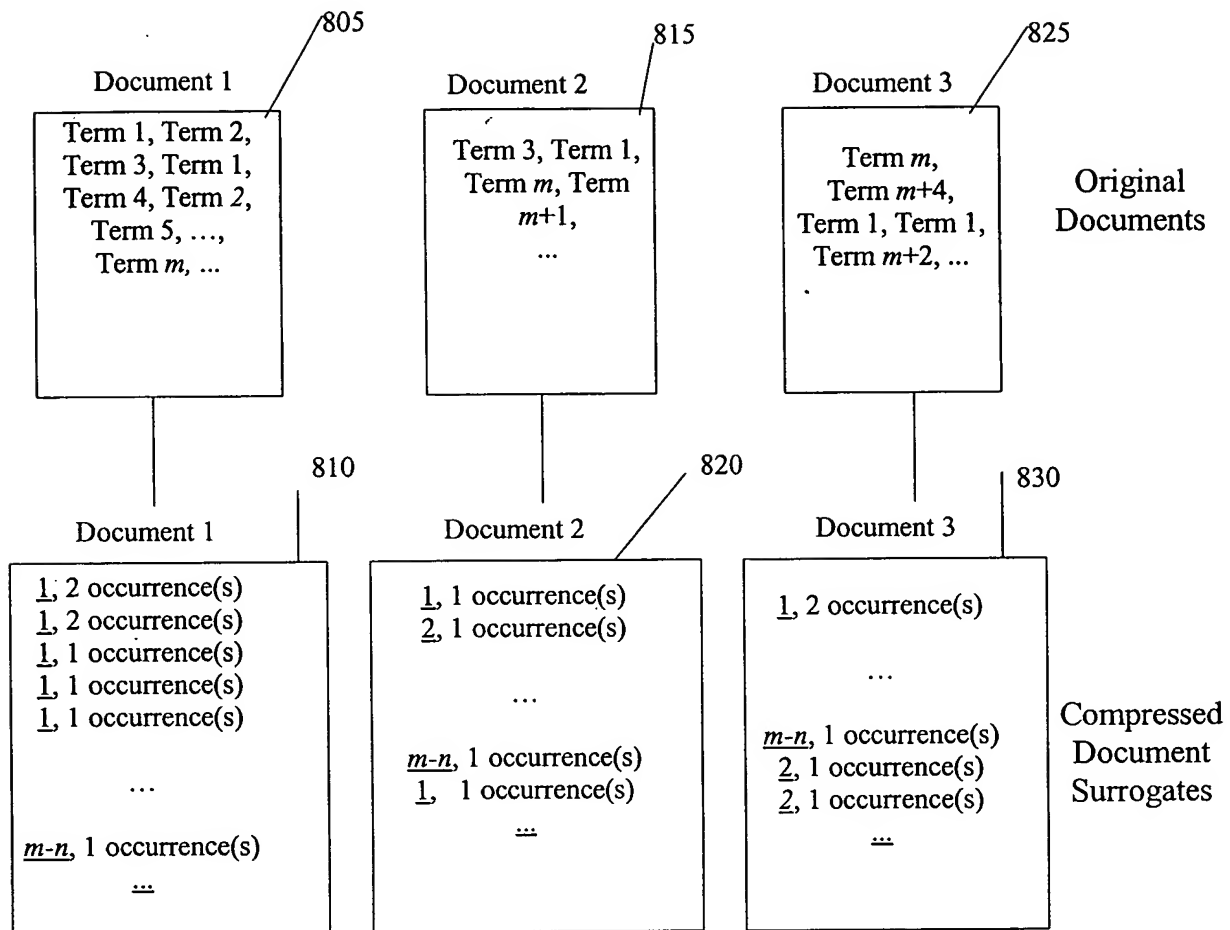


Figure 8 - Relationship Between Documents and Compressed Document Surrogates

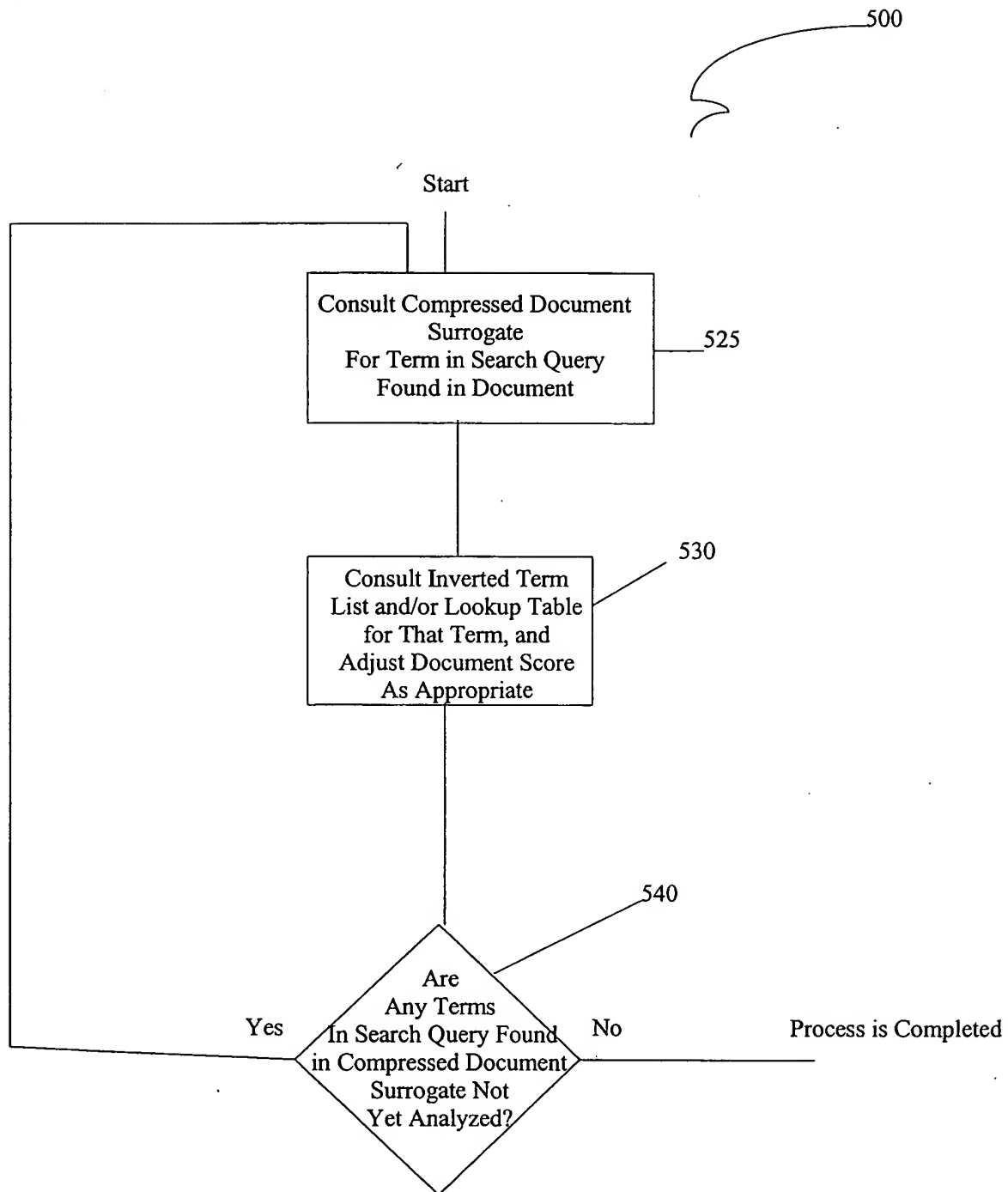


Figure 9 - Process of Calculating Document Score Using Compressed Document Surrogate

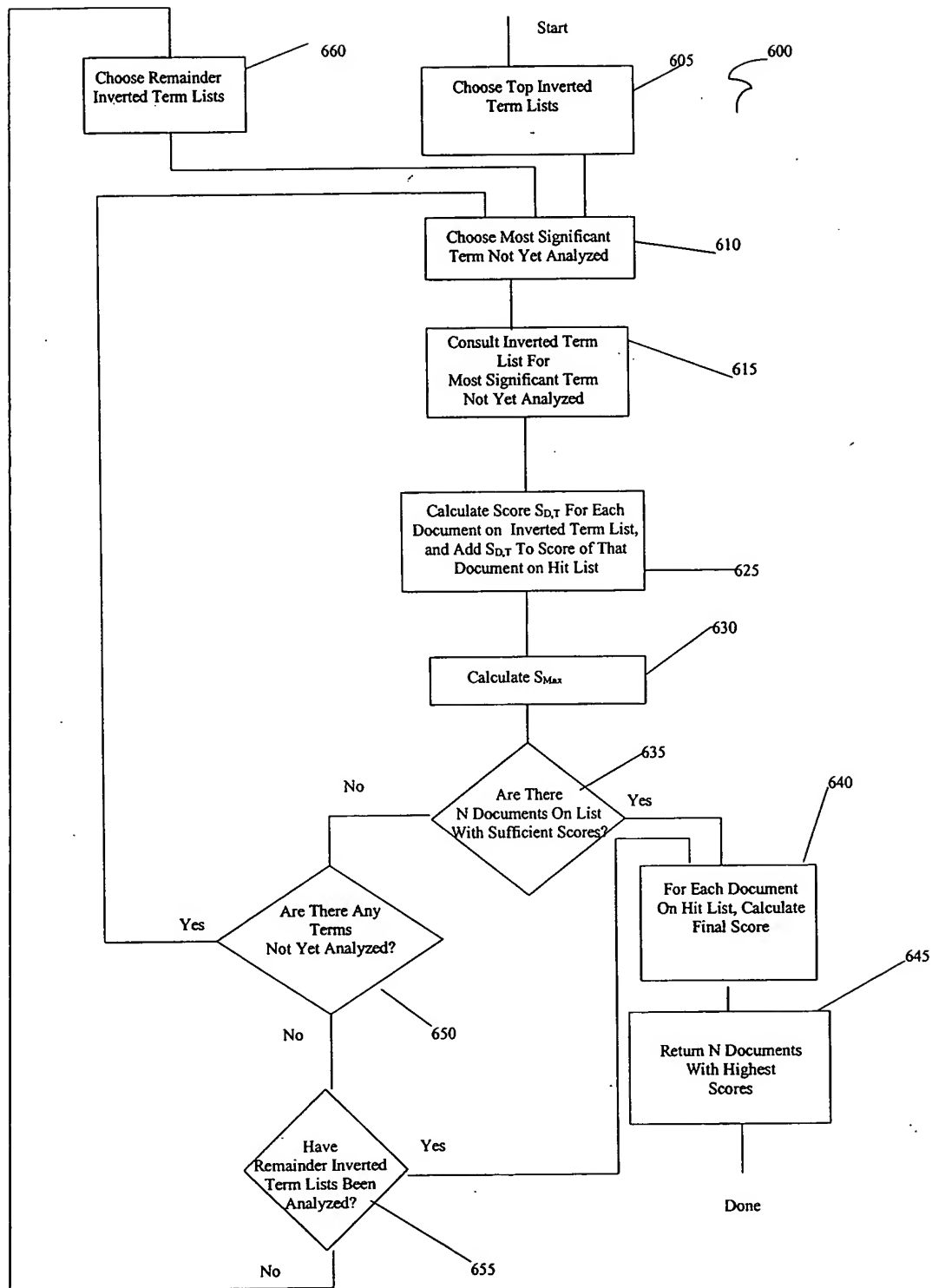


Figure 10 - Process of Carrying Out Search Query Using Compressed Document Surrogates